

**510(k) Summary of Safety**

JUL 28 2011

K103130

This 510(k) summary of safety information is being submitted in accordance with the requirements of SMDA 1990.

**Date Prepared:**

June 1, 2011

**Submitter's Information: 21 CFR 807.92(a)(1)**

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**Trade Name, Common Name and Classification: 21 CFR 807.92(a)(2)**

Trade Name: XELIS 3D  
Common Name: Picture Archiving Communications System  
Classification Name: system, image processing, radiological  
Product code: LLZ  
Device Classification: 892.2050

**Predicate Device: 21 CFR 807.92(a)(3)**

<b>510(k) Number</b>	K082990	K070831
<b>Device Classification Name</b>	System, image processing, radiological	System, image processing, radiological
<b>Device Name</b>	INFINITT XELIS	Voxar 3D Enterprise with ColonMetrix and PET/CT Perfusion
<b>Applicant</b>	INFINITT CO., LTD	BARCOVIEW MIS EDINBURGH
<b>Regulation Number</b>	892.2050	892.2050
<b>Classification Product Code</b>	LLZ	LLZ
<b>Decision Date</b>	11/20/2008	05/22/2007
<b>Classification Advisory Committee</b>	Radiology	Radiology
<b>Type</b>	Traditional	Traditional

**Device Description: 21 CFR 807.92(a)(4)**

XELIS 3D is a software package intended for viewing and manipulating DICOM-compliant medical images from CT (computerized tomography), PET (positron emission tomography) or MRI (magnetic resonance imaging) scanners and other imaging modalities. XELIS 3D can be used for real-time viewing, 3D volume rendering, segmentation, registration, and reporting.

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XELIS 3D application conforms to the DICOM 3.0 standard to allow interoperability with other DICOM compliant systems and is based upon the predicate device software used in Infinitt Xelis K082990.

XELIS 3D does not include any automated or semi-automated process for the detection of nodules or other shapes.

XELIS 3D is supplied to end users in both Windows 32 bit and 64 bit operating systems. The device software can connect to other workstations, PACS server/software, and modalities, through DICOM communication standard.

### **Indications for Use: 21 CFR 807 92(a)(5)**

Xelis 3D™ is a software device intended for viewing of images acquired from various imaging modalities; CT, MR, CR, DR, US, PET and other DICOM compliant medical imaging systems when installed on suitable commercial standard hardware. Images and data can be captured, stored, communicated, processed, and displayed within the system and or across computer networks at distributed locations.

Lossy compressed mammographic images and digitized film screen images must not be reviewed for primary diagnosis or image interpretation. For primary diagnosis, post process DICOM "for presentation" images must be used. Mammographic images should only be viewed with a monitor approved by FDA for viewing mammographic images. It is the User's responsibility to ensure monitor quality, ambient light conditions, and image compression ratios are consistent with the clinical application.

### **Technological Characteristics: 21 CFR 807 92(a)(6)**

XELIS 3D is a software device that does not contact the patient, nor does it control any life sustaining devices. Diagnosis is not performed by the software but by Radiologists, Clinicians and referring Physicians.

A physician, providing ample opportunity for competent human intervention interprets images and information being displayed and printed.

The new device and predicate devices are substantially equivalent in the areas of technical characteristics, general function, application, and intended use. The new device does not raise any new potential safety risks and is equivalent in performance to the existing legally marketed devices.

### **Nonclinical Testing:**

The complete system configuration has been assessed and tested at the factory and has passed all in-house testing criteria. The Validation Test Plan was designed to evaluate all input functions, output functions, and actions performed by the XELIS 3D software in each operational mode and followed the process documented in the System Validation Test Plan.

Nonclinical testing results are provided in the 510(k). Validation testing indicated that as required by the risk analysis, designated individuals performed all verification and validation activities and that the results demonstrated that the predetermined acceptance criteria were met.

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If the device is installed by INFINITT CO., LTD, integration and installations verification tests are conducted against acceptance criteria prior to release to the client. results are provided in the 510(k)

### **Conclusion: 21 CFR 807 92(b)(1)**

The 510(k) Pre-Market Notification for XELIS 3D contains adequate information, data, and nonclinical test results to enable FDA - CDRH to determine substantial equivalence to the predicate device.

The subject device will be manufactured in accordance with the voluntary standards listed in the enclosed voluntary standard survey. The new device and predicate devices are substantially equivalent in the areas of technical characteristics, general function, application, and intended use does not raise any new potential safety risks and is equivalent in performance to existing legally marketed devices.

Nonclinical tests demonstrate that the device is as safe, as effective, and performs as well as the predicate devices.

Therefore, XELIS 3D is substantially equivalent to the predicate devices.



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration  
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Document Control Room – WO66-G609  
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Infinit Co., Ltd.  
% Mr. Casey Conry  
Senior Project Engineer  
Underwriters Laboratories  
1285 Walt Whitman Rd.  
MELVILLE NY 11747

JUL 28 2011

Re: K103130  
Trade/Device Name: Xelis 3D™  
Regulation Number: 21 CFR 892.2050  
Regulation Name: Picture archiving and communications system  
Regulatory Class: II  
Product Code: LLZ  
Dated: June 29, 2011  
Received: July 1, 2011

Dear Mr. Conry:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into class II (Special Controls), it may be subject to such additional controls. Existing major regulations affecting your device can be found in Title 21, Code of Federal Regulations (CFR), Parts 800 to 895. In addition, FDA may publish further announcements concerning your device in the Federal Register.

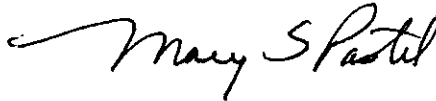
Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Parts 801 and 809); medical device reporting (reporting of

medical device-related adverse events) (21 CFR 803); and good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820). This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Parts 801 and 809), please contact the Office of *In Vitro* Diagnostic Device Evaluation and Safety at (301) 796-5450. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely Yours,

A handwritten signature in black ink, reading "Mary S. Pastel". The signature is fluid and cursive, with a long horizontal stroke extending to the left.

Mary S. Pastel, Sc.D.  
Director  
Division of Radiological Devices  
Office of In Vitro Diagnostic Device  
Evaluation and Safety  
Center for Devices and Radiological Health

Enclosure

## Indications for Use

510(k) Number (if known): K103130

Device Name: Xelis 3D™

### Indications for Use:

Xelis 3D™ is a software device intended for viewing of images acquired from various imaging modalities; CT, MR, CR, DR, US, PET and other DICOM compliant medical imaging systems when installed on suitable commercial standard hardware. Images and data can be captured, stored, communicated, processed, and displayed within the system and or across computer networks at distributed locations.

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Prescription Use   X    
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use             
(21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of In Vitro Diagnostic Devices (OIVD)

Michael D. Johnson  
(Division Sign-Off)

Division of Radiological Devices  
Office of *In Vitro* Diagnostic Device Evaluation and Safety

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